

**CLAIMS:**

It is to be understood that the present invention is by no means limited only to the particular constructions herein disclosed and shown in the drawings, but also comprises any modifications or equivalents within the scope of the claims.

What is claimed is:

5. An apparatus comprising a body having an opening for internal parts whereby any part of a workholder having an opening for internal parts which is inserted into said

body forms a clearance to allow contamination to be non-interfering with adjacent surfaces of said workholder, and said body and workholder have radially spaced coengaging interlocking surfaces for angular indexing wherein said adjacent surfaces of the workholder and body are non-planar with the radially spaced interlocking surfaces of said body and workholder and a retaining mechanism.

6. The apparatus as in claim 5 with an additional set of rotary interlocking surfaces whose axis of rotation is perpendicular to the axis of rotation of the workholder allowing the attachment of a modular positioning element.

7. The apparatus as in claim 6 which has said modular attachments which have rotary interlocking surfaces to engage the second set of interlocking surfaces of the body allowing angular indexing of the body while the modular positioning element is mounted to a plate which is mounted to a machine base.

8. The apparatus as in claim 7 wherein the plate has a vertical shape to match the modular positioning element, allowing the body and workholder to be adjusted vertically without changing the relative angle of the body and workholder to the machine base, and allowing the axis of rotation to be lowered to the extent that the axis of rotation of the workholder is on a plane with the machine base.



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